

CLAIM AMENDMENTS

1. (Currently Amended) A computer-implemented method comprising computer-executable instructions, the method comprising:

examining a plurality of nodes within a media timeline, wherein:

the media timeline is for exposure over an application programming interface (API);

one or more nodes reference respective media;

dividing the media timeline into one or more presentations, wherein each presentation describes a rendering of the media for a particular interval of time, and wherein each presentation describes a collection of software components that, when executed, provides the described rendering of the media for the particular interval of time, wherein the collection of software components include a transform and comprise at least one of a timeline source configured to support a dynamic change to the media timeline, a first media source, a media session, a media engine, a source resolver, or a media sink;

generating, by a node, one or more events that dynamically change the media timeline, the dynamic change comprising adding a node to the media timeline, removing a node of the media timeline, or changing a node of the media timeline;

communicating the one or more events to one or more nodes affected by the change to the media timeline, the communicating comprising the one or more nodes subscribing to receive the one or more events initiated by another node of the media timeline;

~~configuring at least one node for communication of events to another node such that a change may be made to the media timeline while the media timeline is rendered and communicated to at least a parent node, wherein the rendered media timeline is presented on an output device;~~

loading each software component described by a first collection;

executing each software component described by the first collection; and

loading each software component described by a second collection, wherein each software component that is described by the second collection is loaded during the executing of the first collection such that the first collection is available to be rendered on the output device while a second media source is loaded.

2. (Canceled).

3. (Canceled).

4. (Previously Presented) A method as described in claim 1, wherein:

each presentation describes a respective partial topology of software components; and

the respective partial topology is for resolving into a full topology that references each software component utilized to render a respective presentation.

5. (Canceled).

6. (Canceled).

7. (Original) A method as described in claim 1, further comprising receiving a request from the application over the API to render the media timeline.

8. (Previously Presented) A method as described in claim 1, wherein at least one node is configured to reference an effect to be applied to an output of the media referenced by the node.

9. (Previously Presented) A method as described in claim 1, wherein at least one node is specified as read-only.

10. (Canceled).

11. (Previously Presented) One or more computer readable storage media comprising computer executable instruction that, when executed on a computer, direct the computer to perform the method of claim 1.

12. (Currently Amended) A computer-implemented method comprising computer-executable instructions, the method comprising:

receiving a call from an application over an API for rendering a media timeline, wherein:

the media timeline includes a plurality of nodes, wherein the plurality of nodes comprises at least a parent node and a child node;

two or more nodes reference respective media;

the media timeline defines one or more presentations including media;

rendering the media timeline to output each presentation to an output device, wherein the rendering further comprises dividing the media timeline into the one or more presentations such that each presentation describes a collection of software components utilized to render media for a particular interval of time, wherein the collection of software components include a transform and comprise at least one of a timeline source configured to support a dynamic change to the media timeline, a media source, a media session, a media engine, a source resolver, and a media sink;

generating, by a node, one or more events utilized to inform all other nodes of a node tree affected by the one or more events of a dynamic change in the media timeline, configuring at least one node for communication of events to another node such that a change may be made to the media timeline while the media timeline is rendered and communicated to at least the parent node; the change performing at least one of the following:

changing to a property of the at least one node;

adding one or more additional nodes as a child to the at least one node;

removing one or more nodes that are children of the at least one node;

adding an effect to the at least one node; and

removing an effect from the at least one node;
loading each software component described by a first collection;
executing each software component described by the first collection; and
loading each software component described by a second collection.

13. (Previously Presented) A method as described in claim 12, wherein the rendering further comprises:

examining the media timeline.

14. (Previously Presented) A method as described in claim 12, wherein:

each collection does not change for the particular interval of time described by a respective presentation.

15. (Previously Presented) A method as described in claim 12, wherein:

each presentation describes a respective partial topology of software components; and

the respective partial topology is for resolving into a full topology that references each software component utilized to provide a respective presentation.

16. (Canceled).

17. (Previously Presented) A method as described in claim 12, wherein at least one node is configured to reference an effect to be applied to an output of the media referenced by the node.

18. (Canceled).

19. (Previously Presented) One or more computer readable storage media comprising computer executable instruction that, when executed on a computer, configure the computer to perform the method of claim 12.

20. (Currently Amended) One or more computer-readable storage media comprising computer executable instructions that, when executed on a computer, direct the computer to divide a media timeline into one or more presentations, wherein:

the media timeline is for exposure via an API to one or more applications;

the media timeline includes a plurality of nodes, wherein the plurality of nodes comprises at least one node configured to generate one or more events communicated to at least one of a parent node and a child node, the communicating comprising subscribing to receive an indication of an event that affects the parent node or the child node;

~~configuring at least one node for communication of events to another node such that a change may be made to the media timeline while the media timeline is rendered and communicated to at least the parent node;~~

at least two nodes reference respective media;

each presentation describes rendering of respective media to an output device for a particular interval of time, wherein each presentation describes a collection of software components that, when executed, provide the described rendering of media for the particular interval of time, and wherein the collection of software components include a transform and comprise at least one of a timeline source configured to support a dynamic change to the media timeline, a media source, a media session, a media engine, a source resolver, and a media sink; and

the one or more computer-readable media further comprises computer executable instructions that, when executed on the computer, direct the computer to:

- load each software component described by a first collection;
- execute each software component described by the first collection; and
- load each software component described by a second collection.

21. (Canceled).

22. (Canceled).

23. (Previously Presented) The one or more computer-readable storage media as described in claim 20, wherein:

each presentation describes a respective partial topology of software components; and

the respective partial topology is for resolving into a full topology that references each software component utilized to provide a respective said presentation.

24. (Previously Presented) The one or more computer-readable storage media as described in claim 20, wherein at least one node is configured to reference an effect to be applied to an output of media referenced by the node.

25. (Canceled).

26. (Currently Amended) A system comprising:

a memory;

a processor coupled to the memory;

a plurality of media;

a plurality of applications; and

an infrastructure layer that:

provides an API for the plurality of applications which exposes a media timeline that describes one or more presentations of the plurality of media; and

manages rendering of the one or more presentations, wherein each presentation describes rendering of media to an output device for a particular interval of time, and wherein each presentation describes a collection of software components configured for dynamic loading such that the collection of software components provide the described rendering of the media for the particular interval of time, wherein the collection of software components include a transform and comprise at

least one of a timeline source configured to support a dynamic change to the media timeline, a media source, a media session, a media engine, a source resolver, and a media sink, wherein the collection of software components are loaded only when needed,

the media timeline includes a plurality of nodes;

at least two nodes reference respective media; and

at least one node is configured for communication of events generated by the at least one node, the events utilized to inform all other nodes of a node tree affected by the events of a change [[may]] to be made to the structure of the media timeline while the media timeline is rendered ~~and communicated to at least the parent node.~~

27. (Canceled).

28. (Canceled).

29. (Previously Presented) A system as described in claim 26, wherein the collection of software components does not change for the particular interval of time described.

30. (Previously Presented) A system as described in claim 26, wherein each presentation:

describes a respective partial topology that reference one or more software components that, when executed, provide the described rendering; and

the respective partial topology is for resolving into a full topology that references each software component that provide the rendering.

31. (Canceled).

32. (Canceled).

33. (Currently Amended) A timeline source comprising computer instructions that, when executed by a computer, provide:

means for dividing a media timeline into one or more presentations each describing a rendering of one or more media during a particular interval of time, wherein the media timeline exposes a plurality of nodes to a plurality of applications; ~~wherein one or more nodes reference respective said media, and~~

means for generating, by at least one node of the plurality of nodes, an event that dynamically changes the media timeline, the dynamic change comprising adding a node to the media timeline, removing a node of the media timeline, or changing a node of the media timeline;

means for communicating the event to one or more nodes affected by the change to the media timeline, the communicating comprising the one or more nodes subscribing to receive the one or more events initiated by another node of the media timeline;

~~wherein the media timeline is configured for dynamic loading such that metadata included in at least one node specifies a collection of nodes to be loaded when the media timeline is rendered~~[[,]];

~~wherein the rendered media timeline is presented on an output device,~~

~~wherein at least one node is configured for communication of events to another node such that a change may be made to a property of the at least one node while the media timeline is rendered and communicated to at least the parent node;~~

means for determining a topology for each presentation, wherein the topology references a collection of software components that, when executed, provides a rendering of the media timeline ~~the rendering~~; and

media processor means for executing the topology for each presentation that is described by the media timeline;

the topology for each presentation that is described by the media timeline.

34. (Previously Presented) The timeline source as described in claim 33, wherein each collection does not change for the particular interval of time described by a respective presentation.

35. (Previously Presented) The timeline source as described in claim 33, wherein the topology is a partial topology is for resolving into a full topology that references each software component utilized to provide a respective presentation.

36. (Canceled).

37. (Canceled).

38. (Canceled).

39. (Canceled).

40. (Previously Presented) The timeline source as described in claim 33, wherein at least one node is specified as read-only.

41. (Previously Presented) The timeline source as described in claim 33, further comprising means for translating a time specified by one node for rendering the one node with respect to a time specified by another node.